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RAW SEQUENCE LISTING

DATE: 01/28/2003

PATENT APPLICATION: US/09/847,936B

TIME: 15:47:31

Input Set : A:\22000-20571.25.txt

Output Set: N:\CRF4\01282003\I847936B.raw

4 <110> APPLICANT: Hammond, H. Kirk
 5 Giordano, Frank J.
 6 Dillmann, Wolfgang H.
 8 <120> TITLE OF INVENTION: TECHNIQUES AND COMPOSITIONS FOR TREATING
 9 CARDIOVASCULAR DISEASE BY IN VIVO GENE DELIVERY
 11 <130> FILE REFERENCE: 220002057125
 13 <140> CURRENT APPLICATION NUMBER: US 09/847,936B
 C--> 14 <141> CURRENT FILING DATE: 2003-01-17
 16 <150> PRIOR APPLICATION NUMBER: US 09/609,080
 17 <151> PRIOR FILING DATE: 2000-06-30
 19 <150> PRIOR APPLICATION NUMBER: US 09/435,156
 20 <151> PRIOR FILING DATE: 1999-11-05
 22 <150> PRIOR APPLICATION NUMBER: US 08/722,271
 23 <151> PRIOR FILING DATE: 1997-12-29
 25 <150> PRIOR APPLICATION NUMBER: US 08/485,472
 26 <151> PRIOR FILING DATE: 1995-06-07
 28 <150> PRIOR APPLICATION NUMBER: US 08/396,207
 29 <151> PRIOR FILING DATE: 1995-02-28
 31 <150> PRIOR APPLICATION NUMBER: PCT/US00/30345
 32 <151> PRIOR FILING DATE: 2000-11-03
 34 <150> PRIOR APPLICATION NUMBER: PCT/US99/02702
 35 <151> PRIOR FILING DATE: 1999-02-09
 37 <150> PRIOR APPLICATION NUMBER: US 09/021,773
 38 <151> PRIOR FILING DATE: 1998-02-09
 40 <150> PRIOR APPLICATION NUMBER: US 09/068,102
 41 <151> PRIOR FILING DATE: 1998-04-30
 43 <150> PRIOR APPLICATION NUMBER: US 08/852,779
 44 <151> PRIOR FILING DATE: 1997-05-06
 46 <150> PRIOR APPLICATION NUMBER: US 09/132,167
 47 <151> PRIOR FILING DATE: 1998-08-10
 49 <160> NUMBER OF SEQ ID NOS: 16
 51 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 53 <210> SEQ ID NO: 1
 54 <211> LENGTH: 20
 55 <212> TYPE: DNA
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: PCR Primers
 61 <400> SEQUENCE: 1
 62 gcagagctcg tttagtgaac
 64 <210> SEQ ID NO: 2
 65 <211> LENGTH: 21
 66 <212> TYPE: DNA

ENTERED

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67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
70 <223> OTHER INFORMATION: PCR Primers
72 <400> SEQUENCE: 2
73 gaaaatgggt agagatatgc.t 21
75 <210> SEQ ID NO: 3
76 <211> LENGTH: 21
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: PCR Primers
83 <400> SEQUENCE: 3
84 atgagcttgt ccttcctcct c 21
86 <210> SEQ ID NO: 4
87 <211> LENGTH: 20
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: PCR Primers
94 <400> SEQUENCE: 4
95 tcgtttctca gcagctgttg 20
97 <210> SEQ ID NO: 5
98 <211> LENGTH: 20
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: PCR Primers
105 <400> SEQUENCE: 5
106 catctgaact caaagcgtgg 20
108 <210> SEQ ID NO: 6
109 <211> LENGTH: 25
110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Beta 9 - Beta 10 loop in FGF-1
116 <400> SEQUENCE: 6
117 Glu Asn His Tyr Asn Thr Tyr Ile Ser Lys Lys His Ala Glu Lys His
118 1 5 10 15
119 Trp Phe Val Gly Leu Lys Lys Asn Gly
120 20 25
122 <210> SEQ ID NO: 7
123 <211> LENGTH: 23
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Beta 9 - Beta 10 loop in FGF-2
130 <400> SEQUENCE: 7
131 Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr
132 1 5 10 15

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133 Val Ala Leu Lys Arg Thr Gly
134      20
136 <210> SEQ ID NO: 8
137 <211> LENGTH: 22
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Beta 9 - Beta 10 loop in IL-1 Beta
144 <400> SEQUENCE: 8
145 Asn Asn Lys Leu Glu Phe Glu Ser Ala Gln Phe Pro Asn Trp Tyr Ile
146  1      5      10      15
147 Ser Thr Ser Gln Ala Glu
148      20
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 74
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: PCR Primers
158 <400> SEQUENCE: 9
159 cgaacgattg gaatctaata actacaatac gtaccggtct gcgcagtttc ctaactggta      60
160 tgtggcactt aagc      74
162 <210> SEQ ID NO: 10
163 <211> LENGTH: 76
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: PCR Primers
170 <400> SEQUENCE: 10
171 gtacgcttaa gtgccacata ccagtttagga aactg'gcgcag accggtacgt attgtagtta      60
172 ttagattcca atcggt      76
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 32
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: PCR Primers
182 <400> SEQUENCE: 11
183 cgggatccgc ccatggcggg gcccgggacg gc      32
185 <210> SEQ ID NO: 12
186 <211> LENGTH: 28
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: PCR Primers
193 <400> SEQUENCE: 12
194 cggaattctg tgaaggtggt gatttccc      28
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 29

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```

198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: PCR Primers
204 <400> SEQUENCE: 13
205 cggaattcat ggctgaagg gaaatcacc 29
207 <210> SEQ ID NO: 14
208 <211> LENGTH: 65
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: PCR Primers
215 <400> SEQUENCE: 14
216 gctctagatt aggcgtagtc tgggacgtcg tatgggtagc tcttagcaga cattggaaga 60
217 aaaag 65
219 <210> SEQ ID NO: 15
220 <211> LENGTH: 5
221 <212> TYPE: PRT
C--> 222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: PCR Primers
227 <400> SEQUENCE: 15
228 Arg Lys Tyr Thr Ser
229 1 5
231 <210> SEQ ID NO: 16
232 <211> LENGTH: 5
233 <212> TYPE: PRT
C--> 234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: PCR Primers
239 <400> SEQUENCE: 16
240 Ala Gln Phe Pro Asn
241 1 5

```

VERIFICATION SUMMARY

DATE: 01/28/2003

PATENT APPLICATION: **US/09/847,936B**

TIME: 15:47:32

Input Set : **A:\22000-20571.25.txt**Output Set: **N:\CRF4\01282003\I847936B.raw**

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:222 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15

L:234 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16